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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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NFORMATION REPORT INFORMATION REPORT



Sanitized Copy	Approved for Releas	se 2010/06/11 : CIA- REFRIGERATOR PLANT	RDP80T00246A0453	00320001-3
General				
had formerly been and plant was located and Saratov-Moscow rails buildings, two of which the same of t	n aircraft magnet oproximately four road.	to manufacturing problems to manufacturing problems the plant administration to the plant administration of the pl	neast of Saratov, nt consisted of the rative staff and t	New War II. The along the along the aree one-story the third 25
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electric furna	ces for tempering me	al parts.	
•	the materials	received at his shop were freque	ently sub- 25X
standard in qu	ality, and	reject these suppl:	1 es 25>
they were stockpiled, bu	were delivered by r t were taken directl	il once a month. These material to the processing shops concern	ned.
Finished refri	gerators were taken	o truck loading platforms for si	hipment to
various cities	throughout the Sovi	t Union.	25 X 1
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ters for plant dimension, whi family of 70 rubles per	t employees ich had gas, electric three persons. Rent month.	ately 500 meters from the plant assigned a room nine by twel and water facilities. This spa al charges for this room were be for the refrigerator plant was	ve feet in 23 ce accommodated tween 60 and 25 ce obtained from
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The Nikopol Pipe Plant, in a new suburb of the skaya oblast (see sketc meters from Prospekt St section of Nikopol, thr	city of Nikopol, h No. 1 on page alina which com	(N 47-33, E 31 L2). It was a nected the new	+-26) in Dr situated al	nepropetrov- bout 200	١
This plant manufactured up to 50-centimeter ext close supervision of Na similar to this one exi and a fourth plant was	erior diameter: s wal officers. sted in the USSR	pecial piping	was made t	and tubing inder the other plants	25X1
The front of the plant open fields. Except for were not discernible for planted in such profusion Until 1948, the plant of	or the administrate on the outside si	ion building, ince many pine the impression	the plant and bush of looking	buildings es were g at a park.	
SGB (not further identito its present size (secontained the following The First Section and the Section which was still measured about 300 x 15 struction with a skylig divided the work space	fied); but after e sketch No. 2 or manufacturing se he Second Section under construction 0 x115 meters each chted uralite roof	that year the page 13). ections in addition in 1956. the were of first supported by	plant was In 1956, tilition to the 48) and the These structure proof br	increased he plant he SGB: "Secret" ctures ick con-	
The SGB Section (See No naces inadequately loca be conveyed to the cent process. This section needles to five-centime tion and operating room drawn; the smaller cali military production in make; some of it was make employed from three to	ted in the center er of the section manufactured tube ter exterior diam equipment. The ber were cold-dra this section. The rked "Leningrad".	of the shop; and then backs from the calleter pipe for five-centimeter wm. me machinery we the three shop;	raw mater: k again for liber of h furniture er rods we: the	ial had to r the next ypodermic construc- re hot- ere was no of Soviet	25X1
The First Section was 1 No. 11 on Sketch No. 2 was old; the rest was oin 1948. The pipes man meters exterior diameter	on page 13). He of German origin was cufactured in this	alf of the mac which had been section were	hinery in brought f	this section rom Rumania	-
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The Second Section, steel pipe from 17 to other purposes. The pi brought from Rumania, w	pe, which was als		he German ı		

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and other Satellite countries. About 2,000 to 3,000 workers were employed among three shifts. The volume of production varied according to the size of the pipe (See Production Chart No. 6 of Second Section on page 17).

- 8. Billets arrived at the Second Section in a five-freight car train drawn by a steam locomotive; the middle car contained a crane which could reach the two cars on each end. The crane removed the billets from the railroad cars and placed them on a runway where they rolled by gravity to the blast furnace.
- 9. The conveyor system consisted of motor-driven center-tapered rollers. Small individual electric motors operated gangs of four to five rollers (there were five rollers for each three meters of the 250-meter conveyor system).
- 10. The following describes the manufacturing process of the Second Section in detail. (Numbers in parentheses in the margin refer to Sketch No. 4 on page 15. Processes numbered (1) through (15) were called <u>proket</u>):
 - (1) The furnace, which was lined with refractory brick, was a 20 x 35 x 3-meter structure with room for about forty half-meter-diameter cylinders. The furnace was fueled with heavy oil injected at great pressure through two centimeter-diameter holes. Ten men were employed here. Billets were subjected to a charging temperature of 600 degrees centigrade and the temperature was gradually increased to the desired heat of 1200 degrees before discharge. They were then placed on a chute where they were channeled onto a roller-conveyor which moved toward the next runway at the speed of a rapidly walking man.
 - (2) This runway was called provoznoy and at its base was a bumper.
 - (3) The billet was then set onto the piercing point in order to be drawn.
 - (4) This drawing machine contained a system of two rollers called <u>yalkanes</u> (sic) which turned rapidly forcing the cylinder to turn on its axis as it moved ahead perpendicularly toward the piercing point.
 - (5) The piercing point bored the center of the billet. As the rod was being drawn into a tube, it became longer.
 - (6) Once the billet was pierced it was placed on a milling table. The piercing point which was red hot was removed and another one was set.
 - (7) The pipe was moved along by conveyor toward a runway which was called the second provozny which charged the pipe to another drawing machine.
 - (8) This drawing machine was similar to that in (4) and by the same process the tubes were again drawn but the enlarged bore was still not the desired caliber. The pipes were moved by conveyor to a run-way (9).
 - (9) The pipes were measured here.
 - (10) A charger introduced the tubes to another drawing machine and the tubes were passed several times until the desired length was attained. This machine was similar to machines (4) and (8). The interior diameter was enlarged again and the red-hot pipe was discharged onto a conveyor and moved to another drawing machine.

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- (sic)

 (11) This machine was called rilin/and though it was similar to the above-mentioned drawing machines, it was more precise. The tubes were introduced on a tapering mandrel and the pipes were drawn to the exact caliber desired. The interior diameter was thoroughly cleaned. This was a double-draw-bench with two sets of rollers and two piercing points. At this point the pipes were cooler, having changed from a red-orange color to black. The conveyor moved the pipes onto a milling table.
- (12) This machine was called <u>kalibry</u> and consisted of five sets of rollers which squeezed the pipe gradually reducing the exterior diameter. The pipes were then passed onto a control table.
- (13) This was the first control table and consisted of a chain conveyor which moved the pipes along while the men in charge measured the caliber, thickness, and exterior diameter. Defective pipes were lifted by crane to the train and hauled back to the furnaces to be reheated. Pipe which passed inspection was passed on by conveyor to another machine.
- (14) This machine was similar to (12). The pipes were introduced on a mandrel and turned on their axes as they were being pressed straight. They were constantly water-cooled while in the machine. The pipes were then conveyed to the second control table.
- (15) This was the second control table. A row of workers on either side inspected the inside of the pipes with the aid of powerful electric lights and rejected defective pipe (those with cracks, marks, or grooves).
- (15) bis. Finished pipe was passed along to the stockpile where it was classified in three categories depending on quality. This was the end of the conveyor system.
- (16) A crane. This hauled pipe from the stockpile to Shop (17).
- (17) This was the bearing shop where pipes were cut into sections for the manufacture of ball bearings. Balls for the bearings were brought in from an unidentified plant.
- (18) Tubes which were to leave the plant in pipe form went to Shop (18) where the ends were evenly sheared. Thirty cutting machines were necessary to keep pipe moving from the stockpile; furthermore, cutters became dull and overheated through constant use.
- (19) A crane picked up the pipes and placed them on a runway where they slid down to another stockpile.
- (20) Stockpile. The cranes again picked up the pipes and brought them back to the cutting machines for further shearing. When the pipes were sheared on both ends they were re-deposited in the stockpile. A crane picked them up and placed them on a runway which led to the threading machines.
- (21) Runway which led to the threading machines.
- (22) Exterior pipe-threading machines. There were only 20 of these machines as they worked rapidly and efficiently. The pipes were then carried to the stockpile.
- (23) The pipes were then sent back to the exterior pipe-threading machines (to thread the other end).

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- (24) Three cranes. The two on the left served the other one which deposited the pipes on a table.
- (25) Table which moved the pipes along to a charger.
- (26) Charger which placed the pipes into a secondary annealing furnace.
- (27) Furnace which measured 15 x 15 x 6 meters and handled ten halfmeter-diameter pipes at a time. The pipes were heated until they were red (exact temperature unknown) and they were then discharged and conveyed to an oil-tempering bath.
- (28) The pipes fell into the tempering bath which measured 12 x 2 x 1.5 meters. A constant flow of oil (under pressure) flowed into the tank. The oil passed through a 15-centimeter opening. The oil, heated in the tank, flowed out of one end, was cooled by turbines, and returned to the tank. Once the pipes were tempered, they were removed from the tank by crane and deposited on a runway.
- (29) The pipes rolled down the runway shaking off the oil as they rolled toward the stockpile.
- (30) A stockpile. Cranes again picked up the pipes and set them on tables.
- (31) The pipes were classified according to size.
- (32) The pipes were moved by crane to the runway leading to the cutting machines.
- (33) These cutting machines cut the pipes into sections and the interiors were threaded for fittings.
- (34) Freightcars hauled the pipe to tables (31) for classification.
 Fittings were attached to the pipe sections and the manufacturing
 process was complete. Pipes were painted and the white shipping
 labels were attached.
- (35) Three cranes deposited the pipes on freight cars.
- (36) The MVD guard house was located at the railroad exit. The guards filled out the shipping labels, made careful inspection of not only the shipment by the freight cars themselves, and finally gave permission for the train to leave.
- (37) Special costly metal, probably nickel, was stored in this stockpile.
- (38) Electric power station. A $40 \times 15 \times 6$ -meter brick structure which contained three large machines in constant use. This was dependent on the plant's main power station.
- (39) Stockpile for stainless steel cylinders which were arranged according to size.
- (40) Washrooms, dining rooms, tool shop, lavatories.
- (41) Chiefs' meeting room.
- (42) Laboratory.
- (43) Party Secretary's office.

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unless the workers got together and agreed to produce less.

the pay loss. Thus, a vicious competition prevailed among the three shifts

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18 . .	end of the month so the a certain month they of serves to deliver, the	and Section always withheld some at if they had not reached thei ould deliver this reserve. Whe y falsified the production figu- involving the Party Chief himse	ir production level in en there were no re- ures in the Party	
19.	cutting off the electr	rould be interrupted because the ic power, or because of a supplundstill-production might last a	Ly shortage. In the	
20.	Rustaf blast furnaces	Stalin's death, the billets co in the Caucasus were often defe avenge the violence used by Yul	ective. This was	25X1
21.	centimeter pipe was printo production.	oduced, but this greater diamet	sample 60 to 70- ter pipe was never put	25X1
22.		: 38		25X1
23• 24:	Oil Warehouse. Oil, he A one-meter diameter preduced as it entered. The used oil was returned for fuel. Although the in 1956, the oil pipel	outside emergency supply of iron of outside emergency supply dump or ought in by railroad tank cars ipe line began at the warehouse the various manufacturing sectioned to the oil warehouse for put e sections appeared to be sufficient had been extended (see No. ial guards were posted here	was stored here. e and was gradually lons of the plant. urification or used iciently supplied,	25X1
25.	at night. The plant which was topped Watchtowers were locat guarded day and night paint and were construdogs were leashed to a wall. Guards patrolle hours a day. High col	ilding was a seven by six meter- if between 50 to 60 men during to its surrounded by a brick wall a by some five to six parallel hi ited at intervals of 200 to 250 men. These towers were camouflaged acted twenty meters inside the value which was stretched along ind the space between the dogs ar improved the space between the dogs are improved the space between the space betwee	the day and about 80 about three meters ligh tension wires. meters and were in by earth-color wall. A number of g the inside of the ad watch towers 24 s illuminated the	
26.	numbers on Sketch No. ployees, Entrance No. vehicles, and Entrance	the following entrances which are 2 on page 13; Entrances No. 2 4 for the railroad siding, Entrances No. 6 for administrative personal entrances No. 2 and No. 3 to the following entrances No. 2 and No. 3 to the following entrances No. 2 and No. 3 to the following entrances which are 2 on page 13; Entrances No. 2 and No. 3 to the following entrances which are 2 on page 13; Entrances No. 2 and No. 3 to the following entrances which are 2 on page 13; Entrances No. 2 and No. 3 to the following entrances No. 3 to the following entrances No. 3 to the following entrances No	2 and No. 3 for em- rance No. 5 for motor onnel. Guards were	g
27.	located next to the fi	e was a four by five-meter struces tation. In order to enter mese were all of the same color	the plant, one had	

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The propusk stated the section which the worker was authorized to enter. The "Secret" propusk for the secret building was the same color but had an "S" which differentiated it from other passes.

- 28. The entrances had movable bars across the lane; at the beginning and end of each passage there was a guard who inspected passes. Passes were renewed every three or four months. Workers were advised by bulletin boards when their passes were about to expire. If the worker presented an expired pass he was detained at the entrance, obliged to renew it, and was docked 25 percent of his day's pay.
- 29. Entrances and exits to the individual sections were also guarded since employees were not permitted to move from one section to another. However, one could pass the guards by requesting permission to go to another section to borrow a tool. Entrance to the "Secret" Section was impossible without proper authorization.
- 30. Visitors to the plant were required to apply for a pass stating the purpose and approximate length of their visit. If more time was needed, they had to advise the guard office of the change.

Special Security Measure

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25X

nside) for an hour. 25X1

photos taken of 25X1

aerial photos taken of the plant while the test was being made. In these negatives the plant blended with the open fields however, some negatives showed trains and vehicles entering the plant and some showed smakesbillowing up. Later another test was made and canvases were also placed along the sides of the plant area.

- 32. The plant Fire Station was a five by four-meter structure (see No. 7 on Sketch No. 2 on page 13) which employed 15 men permanently.
- 33. The Main Power Plant (see No. 13 on Sketch No. 2 on page 13) which was located west of the Second Section also supplied the village with electric power. This was a 40 x 15 x 7-meter brick building. Thick cables led from the power plant to seven five-meter-high transformers. Transformers (spaced six meters apart in a square area, the seventh being larger and in the center) and the power plant building occupied an area of 60 x 50 meters. Thick barbed wire surrounded the area and guard dogs were leashed to a wire which stretched around the installation. There were a great many lightening rods in the area. Eight or ten workers were employed here and entrance to the installation was forbidden to unauthorized personnel.
- 34. Electric power generated was not adequate for plant needs. At least once a week the power supply was interrupted. If, by the end of the month, the plant had met its production quota, production was stopped for two or three days, especially when one-half-meter pipe was being produced. (A great deal of electric energy was used just to move the conveyor rollers.) At other times, the town's current was cut off so the plant's supply could be increased. The SGB, First and Second Sections also contained individual power stations.

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- 35. Electric power for the plant was produced by two dams built along the Dnepr River, one located in Dnepropetrovsk which was 120 kilometers away and the other in Zaporozhye, 60 kilometers away; the latter said to have been the best dam in the world. See Sketch No. 5 on page 16 of Zaporozhye Dam Site which was described as follows: The dam contained about 15 sluices and five sets of locks. Five heavy cables were stretched across the dam site. The power line extended from the Dnepr to Zaporozhye passing unsheltered cement-based transformers which gradually reduced the number of cables to only one at Zaporozhye. The area was surrounded by a thick wire fence, well-guarded by soldiers.
- 36. Transportation in the plant was chiefly by rail but some truck transportation was also used. The plant owned some sixty trucks with garage facilities including a repair shop and gas pump. Soviet-gauge track thoroughly serviced the various plant sections. The trains, which consisted of four freightcars plus a crane-car in the middle constantly brought in supplies and hauled away finished pipe thus obviating the necessity of loading platforms. There was one road to the plant called Prospekt Staling. This was a 15-meter-wide asphalt surfaced road with a half-meter thick gravel roadbed. This was an all-season road; however, for a few days during the winter, snow made transportation impossible on this road. Trucks were used for light, short-distance hauling. Transportation of material from one side of a section to another was sometimes by truck.
- 37. Storage for finished products was not necessary as they were immediately shipped out. Billets were stored in the open in four-meter-high piles in an area which was larger than the combined building area.
- 38. Working conditions in this plant were described as follows: The plant employed about 15,000 people (laborers, white-collar workers and administrative employees). about 60 percent of the employees were specialized.

25X1

- 39. Workers were not paid for unproductive labor. They worked on Sundays without pay to clean and repair their machines and were given a week day off without pay. The Payroll Office which employed about 50 to 60 office workers could reduce workers' wages for any reason. Each pay day, the office had to pacify many workers protesting the latest wage deduction.
- 40. Light labor workers with seniority were given 15-day vacations and 24 days were given to those with hazardous jobs. Workers were entitled to a vacation after one year but they had to ask permission one month in advance. Previously, if a worker did not take his vacation he would be paid for this time, later it was decided that the worker would not be paid for unconsumed vacation time. Only ten workers each year could spend their vacations in rest homes.
- 41. Each section had the following types of executive personnel:

A section chief,

42.

- A deputy chief who substituted for the chief when he was absent,
- A Party secretary, the actual chief, who assumed the direction of the section and was held in awe by the section chief.

•	section and was held in awe by the section chief.					
		plant personalities:				
(1)	Truvchenko (fnu)	He was the general director of the plant.				
			25X1			
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		Department.				
			25X1			

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		evaint
	- 10 -	25X1
(2)	Leonov (fnu) He was the chief engineer and the Deputy-Director.	
		25X1
(3) 	Abraham Schelov. Chief of the Second Section	
, ;		
		7
(4)	Kuzenko (fnu) Technical Chief of the Second Section	
-		
(5)	Fritman (fnu) He was the engineer in the second section in charge of night shift.	25X1
(6)	Kribenko (fnu) He was a long-time Party member and was in charge of personnel and case histories of the employees.	25X1

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S-E-C-R-E-T

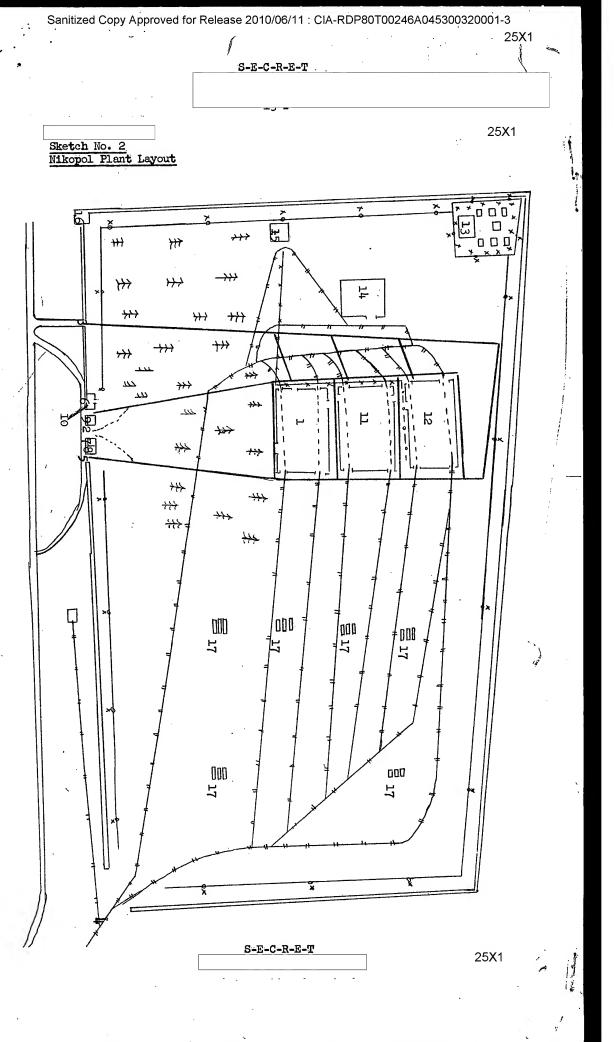
Legend for Sketch No. 2 on page 13 of the Nikopol Pipe Plant Layout

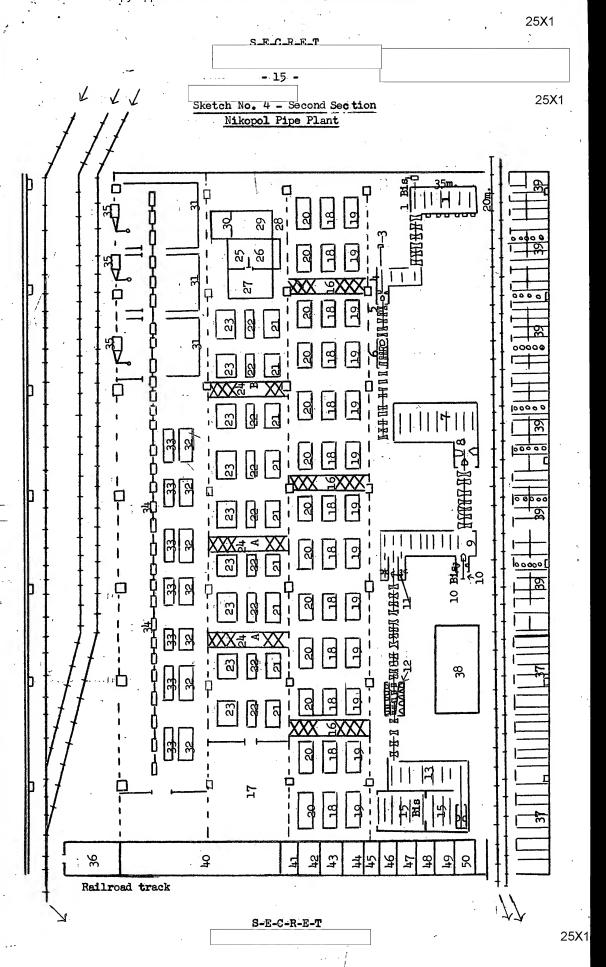
25X1

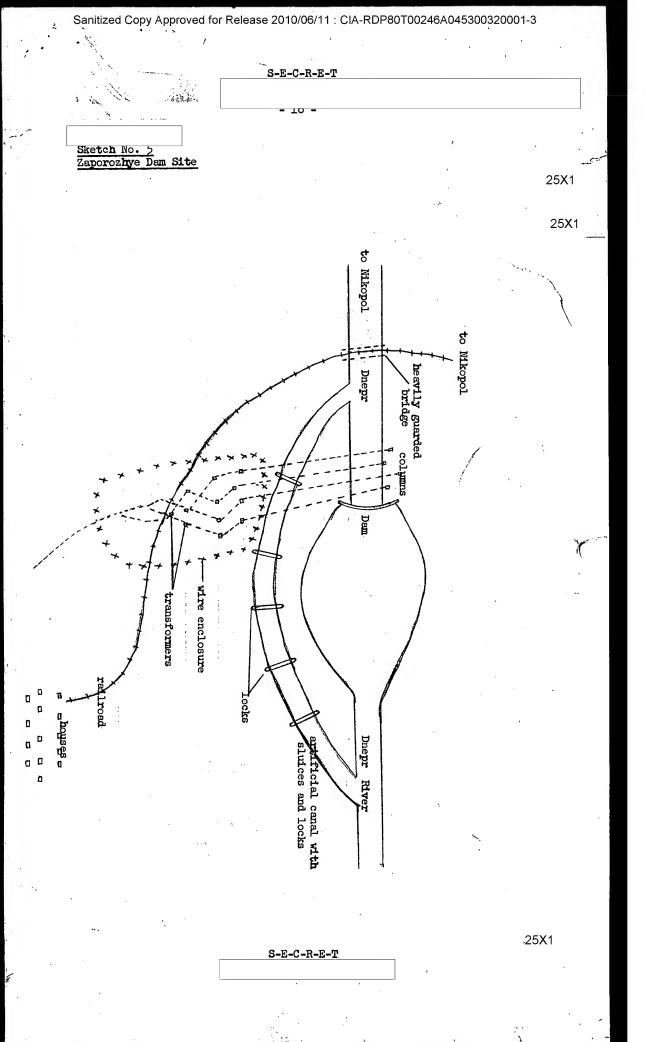
- 1. SGB Building
- 2. Workers' Entrance
- 3. Bicycle Entrance
- 4. Railroad Entrance
- 5. Motor-Vehicle Entrance
- 6. Administrative Office Entrance
- 7. Fire Station
- 8. Propusk Office
- 9. Security Guard Office
- 10. Administration Building
- 11. Section One
- 12. Section Two
- 13. Main Electric Plant
- 14. "Secret" Section
- 15. Oil Supply Building
- 16. Garage
- 17. Outdoor Billet Storage

S-E-C-R-E-7

Scale 1:250,000







Sket														
	ch No. 6	· ·	-	+1										
					1.200°	1.200°	1.200°	1.2000	1.2000	1.200°	1.150°	1.150°	1.1500	Temperature
#5-50 #5-50	45-50 45-50	30-40 cms.	30-40 ств.	30-40 cms.	30-40 cms	30-40 cms.	30-40 cms.	17 ств.	17 cms.	17 cms.	20 & 17 cm.	20 &-17 ст.	20 & 17 cm	Exterior Diameter
stainless steel steinless steel stainless	gron iron iron	stainless stainless stainless steel	steel stainless steel	stainless	iron	iron	iron	stainless steel	stainless steel	stainless steel	iron	iron	iron	Class
					2815-3815	29 39	29'3-39'3	16,10 cms.	16,30 cms:	16,50 cms.	16.10 cms.	16,30 cms.	16,50 cms.	Caliber
160 ш/ш.	20 m/m. 40 m/m. 60 m/m.	80 m/m. 120 m/m.	50 т/т.	30 m/m.	15 m/m.	10 m/m.	7 m/m.	9 m/m.	7 m/m.	5,50 m/m.	9 m/m.	7 m/m.	5,50 m/m.	Wall Thickness
15 H	12 m.	B B	7 m.	8#	12 m.	12 m.	12 m.	12 m.	12 m.	12 m.	12 ш.	12 ш.	12 m.	Longitude
1 every) 2 hours) 1 every	50 50	1 every 2 hours	10	·ω •	•		150)	8 to 10 }	8 t o 10)	8 to 10 }	160-170	140-150)	130	Amount produced each hour
Special pipes for the Navy.	Less length, greater quantity produced.				produced.	Togs longth greater grantity			Special pipes for the Navy.			produced.	th, greater quantity	duced Observations

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S-E-C-R-E-T

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